	Application No.	o. Applicant(s)	
Notice of Allowability	09/877,104	YI ET AL.	
	Examiner	Art Unit	
	Tri H. Phan	2661	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet wi (OR REMAINS) CLOSED in or other appropriate comm IGHTS. This application is:	n this application. If not included unication will be mailed in due co	ourse. THIS
1. $\boxtimes$ This communication is responsive to <u>the communication o</u>	n 26 October 2004.		
2. The allowed claim(s) is/are <u>1-9</u> .			
3. $\boxtimes$ The drawings filed on <u>11 June 2001</u> are accepted by the E	xaminer.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the: <ol> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Application	on No	on from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file MENT of this application.	e a reply complying with the requ	irements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			TICE OF
6. CORRECTED DRAWINGS ( as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the sheet is sheet.	son's Patent Drawing Review  s Amendment / Comment on  .84(c)) should be written on t	r in the Office action of he drawings in the front (not the b	ack) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF BIO	ERIAL must be submitted. No DLOGICAL MATERIAL.	te the
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 08), 7. ☑ Examiner's	formal Patent Application (PTO- ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowa	ŕ
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Art Unit: 2661

### **DETAILED ACTION**

# **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Daniel Y.J. Kim (Reg# 36,186) on October 26<sup>th</sup>, 2004.

The application has been amended as follows:

# IN THE CLAIM:

The following change to the claim 5 has been approved by the examiner and agreed upon by applicant:

In claim 1, line 5, the phrase "the condition of the followings" has been changed to -- the following conditions --.

In claim 1, lines 7, 9, 16, 18 and 20, the term "PU" have been changed to -- PDU --.

In claim 1, insert the word -- and -- right after the term "(VT (MS)) in line 10.

In claim 1, delete the word "the" right in front of the term "sequence number" in line 7.

In claim 1, delete the word "the" right in front of the phrase "window transmission percentage" in line 11.

In claim 1, substitute "the" to -- a -- right in front of the term "first time" in line 8.

Art Unit: 2661

In claim 1, substitute "the" to -- a -- right in front of the term "peer receiver" in line 9.

In claim 1, substitute "the" to -- a -- right in front of the term "parameter" in line 12.

In claim 4, line 4, the term "PU" has been changed to -- PDU --.

In order to avoid abandonment of the application, applicant must make these above agreed upon claim changes (claim 1).

### Reasons For Allowance

2. Claims 1-9 are allowed. The following is an examiner's statement of reasons for allowance:

Claims 1-9 are considered allowable since when reading the claims in light of the specification, none of the references of record-alone or in combination disclose or suggest the combination of limitations specified in the independent claims including.

Substantially regarding claim 1, the prior art of record fails to disclose the method for confirming the receipt protocol data unit in the mobile communication system by modifying the conventional window-based polling algorithm for eliminating the starting point polling problem by satisfying the conditions such as the sequence number of the next PU to be transmitted for the first time (VT(S)) is smaller than the sequence number of the first PU not allowed by the peer receiver (VT(MS)), and especially the window transmission percentage (X), which is a function of the sequence number of the next PU to be transmitted for the first time (VT(S)), is bigger than

Art Unit: 2661

window-based polling (Poll\_Window) and do not have maximum value when the sequence number of the next PU to be transmitted for the first time (VT(S)) equals to the sequence number of the first PU not allowed by the peer receiver (VT(MS)).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sam Shiaw-Shiang Jiang (U.S.2003/0095534 and JP 2004/179916), Lu et al. (U.S.2003/0081664), Ruutu et al. (U.S.6,219,713), Nasir Ghani et al. ("TCP/IP Enhancements for Satellite Networks", July 1999, IEEE, 0163-6804/99, pages 64-72), Byung-Gon Chun et al. ("Auxiliary Timeout and Selective Packet Discard Schemes to Improve TCP Performance in PCN Environment", 1997, IEEE, 0-7803-3925-8/97, pages 381-385) and 3GPP TSG-RAN WG2 Meeting#25 ("Change Request 25.322 CR 156 Rev. 4.2.0", 11-2001, Makuhari, Japan, pages 1-2 and 40-44) are all cited to show devices and methods for improving transmission control in the wireless telecommunication architectures, which are considered pertinent to the claimed invention.

Art Unit: 2661

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tri H. Phan, whose telephone number is (571) 272-3074. The

examiner can normally be reached on M-F (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kenneth Vanderpuye can be reached on (571) 272-3078.

Any response to this action should be mailed to:

**Commissioner of Patents and Trademarks** 

Washington, D.C. 20231

or faxed to:

(703) 872-9314

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,

Arlington, VA, Sixth Floor.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Technology Center 2600 Customer Service Office, whose telephone

number is (703) 305-3900.

Page 5

Art Unit: 2661

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tri H. Phan

October 26, 2004

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